



# Air Resources Board



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## TECHNICAL BULLETIN 404-03

## R&P Model 2000 & 2025 PM2.5 Samplers September 2008

### Issue

The CARB PM2.5 FRM 24 Hour Field Sample Report Form has been updated. The new form will be distributed with PM2.5 filters effective October 2008.

### Solution

Minor changes have been made to the "Local Condition Codes" and "Sample Flag Code" fields. Circle the applicable codes in each field when unusual conditions or sampler flag codes occur during sampling. Circle "NO UNUSUAL CONDITIONS" when filters are collected under normal sampling conditions. See figures 1 and 2 for examples of the use of the "Local Condition Codes" and "Sample Flag Code" fields.

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*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.*

California Environmental Protection Agency

**CARB 24 Hour – FIELD SAMPLE REPORT**  
**Delrin Cassette (FRM) PM 2.5 Samplers**

Bar Code:

LIMS Sample ID:

Site Name: Sacramento T St.  
AIRS Site Number: 34-00305  
Field Technician: Staff  
Agency: CARB

Cassette I. D. Number: R  
Scheduled Sampling Date: 10/2/2008  
Sampler Property #: 20024451

**SAMPLE SUMMARY**

Start Date / Time: 10/2/08 / 0:00  
Total Elapsed Time: 24:00 Hr:min  
Volume: 1.0 M<sup>3</sup>  
Flow CV: 0.1 %

	MIN	AVG	MAX
Ambient Temp(°C):	15	20	25
Filter Temp (°C):	18	22	27
Pressure (mmHg):	750	760	770

**Local Condition Codes: (Circle One)**

NO UNUSUAL CONDITIONS

High Winds                      Forest Fire  
Farming Nearby                Construction Nearby  
Sanding/Salting Streets      Highway Construction  
Roofing Operations            Prescribe Burn

**Sampler Flag Codes: (Circle One, as necessary)**

F. Flowrate 5-min average, out of spec  
T. Filter Temp differential, 30 minutes interval out of spec  
E. Elapsed sample time, out of spec

Operator Comments

**CHAIN OF CUSTODY**

ACTION	DATE	TIME	FILTER TEMP °C	NAME
Sample Load	10/1/2008	8:00		
Sample Removal	10/3/2008	8:05		
Sample Placed in Freezer	10/3/2008	8:30		
Sample Shipped to Lab	10/4/2008	10:00		
Sample Received at Lab				
Start Post-conditioning				

**FOR LABORATORY USE ONLY**

	MASS	DUP MASS	DATE	ANALYST
PRE-WEIGHT				
POST-WEIGHT				

Lab Comments:

Figure 1. Example of a valid sample with no unusual conditions.

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LIMS Sample ID:

Site Name: Sacramento T St.  
AIRS Site Number: 34-00305  
Field Technician: Staff  
Agency: CARB

Cassette I. D. Number: R  
Scheduled Sampling Date: 10/2/2008  
Sampler Property #: 20024451

**SAMPLE SUMMARY**

Start Date / Time: 10/2/08 / 0:00  
Total Elapsed Time: 20:33 Hr:min  
Volume: 0.874 M<sup>3</sup>  
Flow CV: 0.1 %

	MIN	AVG	MAX
Ambient Temp(°C):	15	20	25
Filter Temp (°C):	18	22	27
Pressure (mmHg):	750	760	770

**Local Condition Codes: (Circle One)**

NO UNUSUAL CONDITIONS

High Winds

Forest Fire

Farming Nearby

Construction Nearby

Sanding/Salting Streets

Highway Construction

Roofing Operations

Prescribe Burn

**Sampler Flag Codes: (Circle One, as necessary)**

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Start Post-conditioning				

**FOR LABORATORY USE ONLY**

	MASS	DUP MASS	DATE	ANALYST
PRE-WEIGHT				
POST-WEIGHT				

Lab Comments:

Figure 2. Example of a filter with both a Local Condition Code and a Sampler Flag Code.